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ESR study of the undoped heavy-fermion compound YbRh2Si 2

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Abstract

The electron spin resonance (ESR) of the heavy-fermion metal YbRh 2Si2 has been studied. The angular variation and the temperature dependence of the ESR line width have been measured in YbRh 2Si2 single crystals in the temperature range of 4-25 K. The characteristic spin-fluctuation temperature T* ~ 17 K estimated from these studies coincides very well with other experimental data. A well-behaved ESR signal due to local Yb3+ moments strongly supports the localized moment scenario for heavy-fermion quantum critical points.